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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,177	03/02/2004	Troy Michael Herndon	STL 3352	3758
**	7590 02/12/200 CHNOLOGY c/o MOF		EXAMINER JIMENEZ, MARC QUEMUEL ART UNIT PAPER NUMBER	
425 MARKET S	ST.			
SAN FRANCIS	CO, CA 94103			
			3726	,
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MON	THS	02/12/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/792,177	HERNDON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Marc Jimenez	3726	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailting date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status		·	
1)⊠ Responsive to communication(s) filed on <u>21 N</u>	lovember 2006		
	s action is non-final.	•	
3) Since this application is in condition for allowa		secution as to the marite is	
closed in accordance with the practice under E			
Disposition of Claims			
4)⊠ Claim(s) <u>1-4,6-9,21 and 22</u> is/are pending in the	ne application	<u>~</u>	
4a) Of the above claim(s) is/are withdraw	* *		•
5) Claim(s) is/are allowed.	rem consideration.		
6) Claim(s) <u>1-4,6-9,21 and 22</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examine	ar .		
10)☐ The drawing(s) filed on is/are: a)☐ acc		- - - - -	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	` '	
11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	. ,		
1. Certified copies of the priority document	s have been received.		
2. Certified copies of the priority document		on No.	
3. Copies of the certified copies of the prior			
application from the International Bureau		, , , , , , , , , , , , , , , , , , ,	
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	e d .	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate	
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application	
	o)		

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DETAILED ACTION

Specification

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 2. The disclosure is objected to because of the following informalities: in paragraph [0020], third to last line, "grove" should be - groove -.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-4, 6-9, 21 and 22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 1 now recites "a first journal bearing configuration having one or two sub-journal bearings". There is no support in the original disclosure for determining a first performance characteristic for a first journal bearing configuration having one sub-journal

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bearing. The specification only has support for determining a first performance characteristic for a first journal bearing configuration having two sub-journal bearings.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 3 and 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The limitations pertaining to the length of each sub-journal compared to the total length of the journal is misleading. For example, claims 3 and 4 recites that the second journal configuration has a length equal to substantially one-third of the total journal length. However, in figure 2 of applicant's drawings, the length of each respective sub-journal **275,280,280** is substantially less than one-third of the total journal length.

In addition, the limitations in claim 3 do not support the limitations in claim 1 because in claim 1, there could be more than three sub-journals. For example, if there are four sub-journals, it is unclear how the length of each sub-journal could be one-third the total length of the journal.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1-4, 8, 21 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Hijiya et al. (US4820950).

Hijiva et al. teach a method for designing a fluid dynamic bearing system, comprising: determining a first performance characteristic (col. 2, lines 16-18, "maintain the pressure in pocket 16 in a suitable state.") for a first journal bearing configuration having one or two (figure 3) sub-journal bearings; determining a second performance characteristic (col. 2, lines 45-46, "deterioration in characteristics") for a second journal bearing configuration having at least three (figure 7) sub-journal bearings, wherein each of the at least three (figure 7) sub-journal bearings provide radial stiffness; and implementing the second journal bearing configuration (figure 7) if the second performance characteristic is improved relative to the first performance characteristic. Note that the limitation "if the second performance characteristic is improved relative to the first performance characteristic" and "if the second stability ratio is greater than the first stability ratio" are considered an optional step and not a required step. In other words, according to the invention as claimed, either the first journal bearing configuration or the second bearing configuration could be implemented. Therefore, Hijiya et al. teach the invention as claimed. As best understood, Hijiya et al. teach the respective length ratios claimed in claims 3. In figure 3, Hijiya et al. teach a different (third) journal bearing configuration, the performance characteristics of which are clearly determined. Both performance characteristics clearly "comprise" first and second stability ratios.

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Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10. Claims 6, 7, 9 rejected under 35 U.S.C. 103(a) as being unpatentable over Hijiya et al. in view of Remmers et al. (US4141603).

Hijiya et al. teach the invention cited above with the exception of the third configuration comprising four sub-journal bearings.

Remmers et al. teach various configurations including one that has four sub-journal bearings (see figure 6).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Hijiya et al. with four sub-journal bearings, in light of the teachings of Remmers et al., in order to provide a bearing assembly where pressure is built up in the lubricant in the relevant direction of rotation as suggested by Remmers et al. (col. 4, lines 6-8). As best understood, Hijiya et al. and Remmers et al. teach the respective length ratios claimed in claims 7.

Response to Arguments

11. Applicant's arguments with respect to claims 1-4, 6-9, 21 and 22 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Interviews After Final

13. Applicant note that an interview after a final rejection will not be granted unless the intended purpose and content of the interview is presented briefly, in writing (the agenda of the interview must be in writing) to clarify issues for appeal requiring only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations will

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be denied. See MPEP 714.13 and 713.09.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc Jimenez whose telephone number is (571) 272-4530. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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MARC JIMENEZ RIMARY EXAMINER

MJ 2-3-07